Class Tasks 4.12 Student Worksheet

Lesson 4.12.1 & 4.12.2 Relational and Logical Operator Activities

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Question 12.1 – Relational Operators

TIME ALLOWED: 12 Mins

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Class Tasks 4.12 Student Worksheet

Lesson 4.12.3
If Statement Activities

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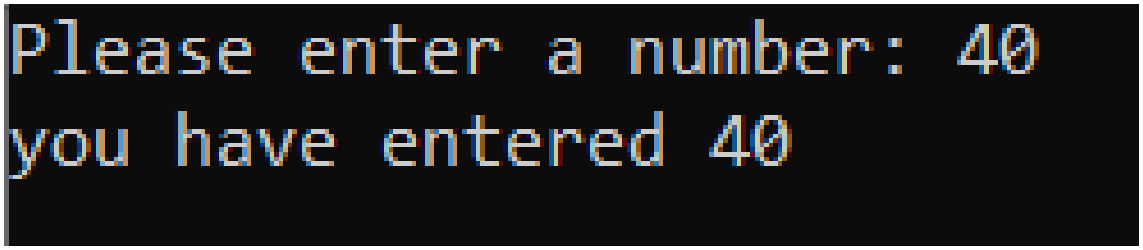
Question 12.3.1 – Programming EASY

- Create an integer Variable userNum.
- Allow the user to enter a number.
- If the number is equal to 40, print “this is 40” otherwise don’t do anything.
- Pseudocode your answer first.
- The output should be exactly this:



TIME ALLOWED: 5 Mins

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Code Answer

Pseudocode Answer

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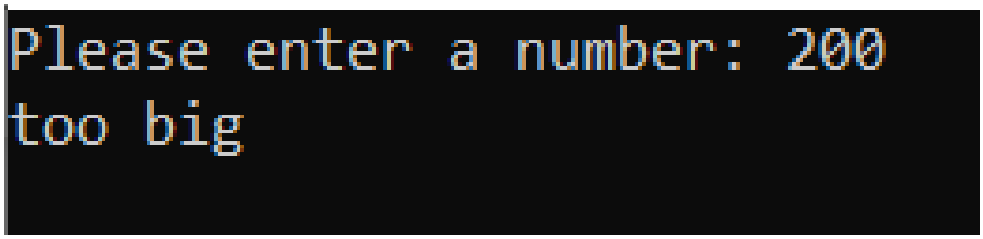
Question 12.3.2 – Programming EASY

- Create an integer Variable userNum.
- Allow the user to enter a number.
- If the number is bigger than 100, print out “too big” otherwise don’t do anything.
- Print out the results to the console.
- Pseudocode your answer first.
- The output should be exactly this:



TIME ALLOWED: 5 Mins

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Code Answer

Pseudocode Answer

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Question 12.3.3 – Programming MEDIUM

- Allow a user to enter a username and password.
- Your program check that a password has been entered.
- If no password has been entered, you will display the following error message.
- Pseudocode your answer first.
- The output should be exactly this:

```
Please enter a user name: fred
Please enter a password:
Your username is fred
But you have not entered a password
```

TIME ALLOWED: 10 Mins

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Code Answer

Pseudocode Answer

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Question 12.3.4 – Programming MEDIUM

- Allow a user to enter a username and password.
- Your program check to make sure that BOTH a username AND a password have been entered.
- You will check your program using the inputs specified in the output screenshot.
- Pseudocode your answer first.
- The output should be exactly this:

```
Please enter a user name: fred
Please enter a password:

Please enter a user name:
Please enter a password: 12345

Please enter a user name:
Please enter a password:
you have not entered either a username or a password
```

TIME ALLOWED: 10 Mins

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Code Answer

Pseudocode Answer

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Question 12.3.5 – Programming CHALLENGING

- Allow a user to enter a username and password.
- Your program will detect if anything is missing.
- Your program will display **ONE AND ONLY ONE** error message to the user.
- Pseudocode your answer first.
- The output should be exactly this:

```
Please enter a user name: fred
Please enter a password:
you have not entered a password

Please enter a user name:
Please enter a password: 1234
you have not entered a userName

Please enter a user name:
Please enter a password:
you have not entered EITHER a userName or a password
```

TIME ALLOWED: 10 Mins

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Code Answer

Pseudocode Answer

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Class Tasks 4.12 Student Worksheet

Lesson 4.12.4
If.. Else Statement Activities

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